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Diospyros primæva, Heer, *Laurophyllum reticulatum*, Lesqx.
Widdringtonia Reichii, Ett., etc.

The following new species are figured: *Pterophyllum Reichianum*, *Sterculia Geinitzi*, *Triplaris Cenomanica*, *Simaba Cenomanica*, *Salix Schœnæ*, *Phacidium myrtophylli*, *Leguminosites cretaceus*, *Sapotacites Stelzneri*, *Mimusops ballotæoides*, *Sapindus Saxonicus*, *Chrysophyllum Velenovskii*, and *Pinus*, *sp.*

A. H.

Index to Recent Literature Relating to American Botany.

Amherst Trees—James Ellis Humphrey (Amherst, Mass., 1892).

A record of noteworthy native and cultivated trees in the vicinity of Amherst.

Anthoxanthum odoratum—*Notes on the Flowers of*. Theo. Holm.
(Proc. U. S. Nat. Mus. xx. pp. 399-403, with plate; reprint).

Aristolochia gigantea. (Gard. Chron. xii. 341, illustrated.)

Aster sericeus. (Gard. & For. v. 473, with figure.)

Atriplices—*New Californian*. Willis L. Jepson. (Pittonia, ii. 303-306.)

Descriptions of *Atriplex depressa*, *A. cordulata*, *A. trinervata*, *A. verna*, and *A. fruticulosa*.

Bacterial Investigation of the Sea and Its Floor. H. L. Russell.
(Bot. Gaz. xvii. 312-321).

Bomarea frondea. J. G. Baker. (Curt. Bot. Mag. t. 7, 247.)

Calendario Botanico de San Juan Bautista y sus Alrededores.
Jose N. Roviroso. (La Naturaleza, (II.) ii. 106-126.)

Capparis flexuosa. J. D. Hooker. (Curt. Bot. Mag. t. 7, 248.)

Compositæ—*Studies in the*. II.—Edward L. Greene. (Pittonia, ii. 287-290.)

A discussion of certain species of *Grindelia*, with descriptions of two new ones.

Cross and Self-fertilization. Minnie Reed. (Bot. Gaz. xvii. 330.)

Cryptogams collected by Dr. C. Willard Hayes in Alaska,
1891. Clara E. Cummings. (Nat. Geogr. Mag. iv. 160).

Daucus Carota—Notes upon. Chas. W. Hargitt. (Bot. Gaz. xvii. 328-330.)

Diagnoses of two new Genera. Edward L. Greene. (Pittonia, ii. 301-302).

Hesperalcea of the Malvaceæ and *Ramona* of the Labiataæ.

Dicraurus eptocladus, Hook. f. (Icon. Pl. xxiii. t. 2, 227.)

Dr. Kuntze and his Reviewers. Edward L. Greene. (Pittonia, ii. 263-281.)

Professor Greene takes up the principal chapters which have been written in criticism of Dr. Otto Kuntze's "Revisio Genera Plantarum" and discusses them in his characteristically elegant style. Had we space at our command we would gladly reprint his entire paper, but must be content with commending it to our readers as an article which for erudition and execution must command their unqualified admiration.

Erythronium—Notes on certain Species of. E. B. Knerr. (Bot. Gaz. xvii. 326-328.)

Flowers and Insects—IX. Charles Robertson. (Bot. Gaz. xvii. 269-276.)

Account of the insects found visiting *Hydrangea arborescens*, *Philadelphus grandiflorus*, *Ribes gracile*, *Ludwigia alternifolia*, *L. polycarpa*, *Oenothera fruticosa*, *Gaura biennis*, *Circæa Lute-tiana*, *Mollugo verticillata*, *Sambucus Canadensis* and *Houstonia purpurea*, with notes on floral structure.

Fossil Flora of the Bozeman Coal Field—The. F. H. Knowlton. (Proc. Biol. Soc. Wash. vii. 153, 154).

An abstract of the author's recent investigations, with a view to the determination of the age of the beds. Memoranda upon *Thinnfelda* and *Sphenopteris Lakesii*, Lesq., are given. From fruiting specimens this latter is now known to be an *Aspidium*. The flora is represented by forty-three species, of which three are new to science.

A. H.

Fossil Plants, Hamilton, Ontario. C. C. Grant. (Journ. & Proc. Hamilton Assoc. 1891-92, 147, 148).

The author describes recent discoveries of fucoids allied to *Buthotrephis*, *Licrophycus*, etc., besides giving observations upon the supposed affinities of other organisms. This paper is sup-

plementary to a previous one published on pages 29-35 of the same journal. A. H.

Fungous Diseases and their Remedies. James Ellis Humphrey. (Trans. Mass. Hort. Soc. part i. 103, 1892).

Furcraea pubescens. J. G. Baker. (Curt. Bot. Mag. xlviii. t. 7250).

Galeandra—The Genus. (Gard. Chron. xii. 430).

Garrya—The Fruit of. Edward L. Greene. (Pittonia, ii. 292, 293).

Professor Greene points out that the fruit of this genus is capsular rather than baccate, and that the capsule has circumsessile dehiscence, and contends that this character, taken in connection with others, should exclude *Garrya* from the Cornaceæ.

Gesnera cardinalis. (Gard. xlii. 232, with colored plate).

Hardwood Trees of Illinois—Notes on the. J. Schneck. (Hardwood ii, No. 5).

Hoffmanseggia—Revision of the North American Species of. E. M. Fisher. (Contrib. U. S. Nat. Herb. i. 143-150).

The author recognizes seventeen species as occurring in the United States and Mexico, of which *H. Texensis*, from Texas, *H. glabra*, from Lower California, and *H. canescens*, from Coahuila, are described as new. *H. stricta*, Benth., is reduced to a variety of *H. falcaria*, Cav., and *H. intricata*, Brandegee, to a variety of *H. glabra*. Numerous new varieties are described.

Mr. Fisher does not discuss the relation of *Hoffmanseggia* to *Cæsalpinia*, other than remarking that *H. caudata*, A. Gray, is related to *Cæsalpinia* "in respect to sepals, petals and pod." It may be noted that M. Baillon has united the two genera in his "Histoire des Plantes," and material which we have recently received from Bolivia renders that position easily defensible.

N. L. B.

Kunzia—The Genus. Edward L. Greene. (Pittonia, ii. 298, 299).

Note that this name must replace *Purshia*, DC. (1818), not Raf. *Kunzia* was published by Steudel in 1821.

List of Plants Collected by Dr. Edward Palmer in 1890 on Carmen Island. J. N. Rose. (Contr. U. S. Nat. Herb. i. 129, with plates).

Drymaria diffusa, *Desmanthus fruticosus*, *Passiflora Palmeri*,

Houstonia fruticosa, *Brickellia brachiata*, Gray, var. *glabrata* and *Euphorbia Carmenensis* are described as new.

List of Plants collected by the U. S. S. Albatross in 1888-'91 along the Western Coast of America. J. N. Rose, D. C. Eaton and W. A. Evans. (Contr. U. S. Nat. Herb. i. 135).

The new species described are *Oxalis Agassizi*, *Bryum cælophyllum*, *Lophocolea apiculata* and *Schistochila quadrifida*. The two latter species are illustrated.

Live Oak—A Florida. Robert H. Lamborn. (Gard. and For. v. 483).

With illustrations of *Quercus Virginiana*.

Manglares in Ecuador—Die. Baron H. Eggers. (Bot. Centrabl. lii. 49).

Notes on *Rhizophora Mangle*, L., its habitat, manner of growth, and the various uses its wood is put to in Ecuador.

Mastigochytrium, eine neue Gattung der Chytridiaceen. G. de Lagerheim. (Hedwigia xxxi. 185-189, one plate).

Melanthus—The Genus. W. Botting Hemsley. (Ann. Bot. vi. 145).

Miscellaneous Notes. Marshall A. Howe. (Pittonia, ii. 291).

Notes on *Fucus evanescens*, Ag., *Gigartina radula*, Ag., from the coast of California, and on specimens of *Agrostis alba*, var. *vulgaris*, from Newfane, Vermont, with glumes four or five times the normal length.

New Mosses of America. F. Renauld and J. Cardot. (Bot. Gaz. xvii. 296).

Descriptions of *Dichodontium Olympicum*, from Washington, *Grimmia Hendersoni* and *Encalypta lacera*, from Oregon, and *Leskea obtusa*, from Pennsylvania and Louisiana.

New or Noteworthy Species. Edward L. Greene. (Pittonia, ii. 282; 293-298).

Micrampelis leptocarpa, *Xanthocephalum lucidum*, *Plagiobothrys campestris*, *Lotus sulphureus*, *Hedysarum MacKenziei*, var. *leucanthum*, *Claytonia nubigena*, *Eriogonum Davidsonii* (subsequently determined to be the same as *E. molestum*, S. Wats.), *Epilobium subcæsum*, *E. minutum*, var. *Biolettii*, *Ranunculus Turneri*, *Sambucus maritima* and *Habenaria maritima* are described as new.

Nicotiana tomentosa. J. D. Hooker. (Curt. Bot. Mag. t. 7252.)

Notes on Silurian Fossil Plants from Hamilton, Ontario. C. C. Grant. (Journ. and Proc. Hamilton Assoc. 1891-92, 29-35.)

The author takes up cudgels in defense of the vegetable origin of many organisms which have been classed as *Incertæ Sedis*, *Buthotrephis*, *Palæophycus* and *Palæochorda* are the subjects of interesting memoranda.

Notes on the structure of the Fruit-stone of the Date, Phoenix Dactylifera, L. J. L. Zabriskie. (Journ. N. Y. Micros. Soc. viii. 107-112, plate 37.)

Noticia y Descripcion de una Variedad de la Breveria Mexicana, Hemsley. M. M. Villada. (La Naturaleza (II.), ii. 127-128, one plate.)

Pasithea cærulea. J. D. Hooker. (Curt. Bot. Mag. t. 7249.)

Peperomia inquilina. W. Botting Hemsley. (Gard. Chron. xii. 428.)

The description of a new Central American species.

Plant Dissemination—A peculiar case of. Edward L. Berthoud. (Bot. Gaz. xvii. 321-326).

Argument for the distribution of plants through the migration of the Buffalo.

Plants and Insects—Some Interrelations of. C. V. Riley. (Proc. Biol. Soc. Washington, vii, 81.)

Pollination of Flowers—A Lecture on the. L. H. Pammel. Des Moines, 1892. Illustrated.)

Polygonum persicarioides, H. B. K. J. M. Holzinger. (Bot. Gaz. xxii. 295, 296.)

Notes on the species and record of its occurrence in Texas.

Prasiola—Ueber die Fortpflanzung von. G. de Lagerheim. (Ber. Deut. Bot. Gesell. x. 366, with plate.)

Preliminary Comparison of the Hepatic Flora of Boreal and Sub-boreal Regions. Lucien M. Underwood. (Bot. Gaz. xvii. 305-312.)

Preservation of Plants as Fossils. Jos. F. James. (Jour. Cin. Soc. Nat. Hist. xv. 75-78. Also reprinted.)

After a very commonplace and incomplete presentation of the subject the author winds up with what he calls the "chemical

process," for an example of which he quotes the discolorations made by leaves which have fallen on a smooth pavement during a rain, which he regards as having "left their impress on the stone!" We offer this hint to those who are engaged in the study of nature printing processes as valuable. A. H.

Sida quinquenervia, Duchass. (Icon. Plant. pl. 2249.)

Sphagna—*Einige neue exotische*. C. Warnstorf. (Hedwigia, xxxi. 174-182, two plates.)

One would suppose that this genus had been pretty well explored in North America, but here comes Herr Warnstorf again with four proposed new species—*S. Labradorensis*, from Labrador, received from Prof. Macoun; *S. dasyphyllum*, collected by Dr. Evans, at New Haven; *S. Orlandensis*, from Florida, received from Prof. Eaton; *S. Mohrianum* and *S. Mobilense*, collected by Dr. Mohr, at Mobile, Ala.

Spiræa lobata. (Meehan Month. ii. 145, with colored illustration.)

Spirochaeten—*Notiz über phycochromhaltige*. G. de Lagerheim. (Ber. Deut. Bot. Gesel. x. 304.)

A new genus *Glaucospira*, with two species *G. agilissima* and *G. tenuior*, from the vicinity of Quito, are described.

Systematic and Alfabetic Index of New Species of North American Phanerogams and Pteridophytes, published in 1891. Josephine A. Clark. (Cont. U. S. Nat. Herb. 1, 151-188.)

This most useful compilation will be of the greatest service to all systematic botanists. It gives, in addition to the names of plants proposed as new species, the new binomial combinations which have been in transferring species from one to another or in taking up older specific names. These new combinations are distinguished from the new species by the omission of the locality from which the plants were derived. It is highly gratifying to learn from a foot-note by Dr. Vasey, that it is proposed to make such a list an annual feature in the work of the National Herbarium.

Teratological Notes. Edward L. Greene. (Pittonia, ii. 261, 262; 299, 300.

Record of double flowers in *Delphinium patens* and *Triteleia*

laxa, proliferation in *Rosa lævigata*, tetramerous flowers in *Fragaria Californica*, phyllody of the tip of the spike in *Plantago lanceolata* (we have noticed this once or twice about New York), the production of two cherries from flowers of *Cerasus mollis*, and of the same duplication in the Peach. N. L. B.

The Islay. (Gard. and For. v. 469.) With illustration of *Prunus ilicifolia*.

Ueber Tertiäre Fagus-Arten der Südlichen Hemisphäre. C. F. von Ettingshausen. (Sitzb. K. Akad. Wiss. Wien., Jahrgang 1891, 114-137, Taf. i, ii.)

Twelve fossil species of the genus *Fagus* are described, ten of which are new. *F. Wilkinsoni*, *F. Etheridgei*, *F. Müelleri*, *F. ulmifolia* and *F. Shagiana* are figured on T. i. *F. Moorei*, nature printed, is represented by ten figures on T. ii.

Uredineen—Ueber einige in Sudamerika auf Berberis Arten wachsende. P. Magnus. (Ber. Deut. Bot. Gesel. x. 319, with plate.)

Variations of the Strawberry Leaf. C. B. Atwell. (Bot. Gaz. xvii. 336-337).

Woody Plants of Western Wisconsin. L. H. Pammel. (Iowa Acad. Sci. i.; Pt. ii.)

Proceedings of the Club.

TUESDAY EVENING, OCTOBER 11, 1892.

Vice-President Allen in the chair, and nineteen persons present. Dr. Rusby was elected secretary pro tem.

The report of the Instruction Committee for 1892, was presented by its Chairman, Dr. Rusby, accepted and ordered on file.

Mr. Lighthipe reported upon several botanical excursions which he had made during the summer. North of Mountain House in the Catskills during the last week in August he had found *Arenaria Grænlandica*, *Potentilla tridentata* (in fruit), and *Arctostaphylos Uva-ursi* (in fruit). At Haynes Falls, altitude about 2,000 feet, he had found *Cornus Canadensis* (in fruit), *Hieracium aurantiacum*, *Adlumia fungosa*, *Impatiens pallida*, *Habenaria Hookeri*, *Chiogenes* and *Monarda fistulosa*. At Bald Mountain near Scranton, about the same ele-